Infrastructure Grants Workshop





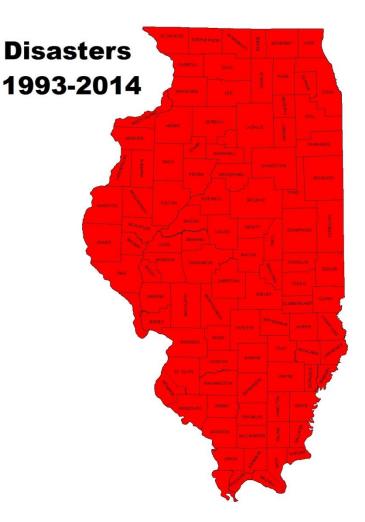
Tuesday Aug. 18, 2015 Bartlett

Flooding in Illinois

Illinois' Rivers, Lakes, & Streams



- Illinois has the nation's largest inland system of rivers, lakes, and streams
- There has been a federally declared flood disaster in every county in Illinois
- Over 5,000 buyouts completed in the State thus far





Throughout our history...

Plenty of frustrated Illinoisans!

Photo courtesy of Rockford Register Star









Panic



The Hydro ILLOGICAL Cycle









Concern



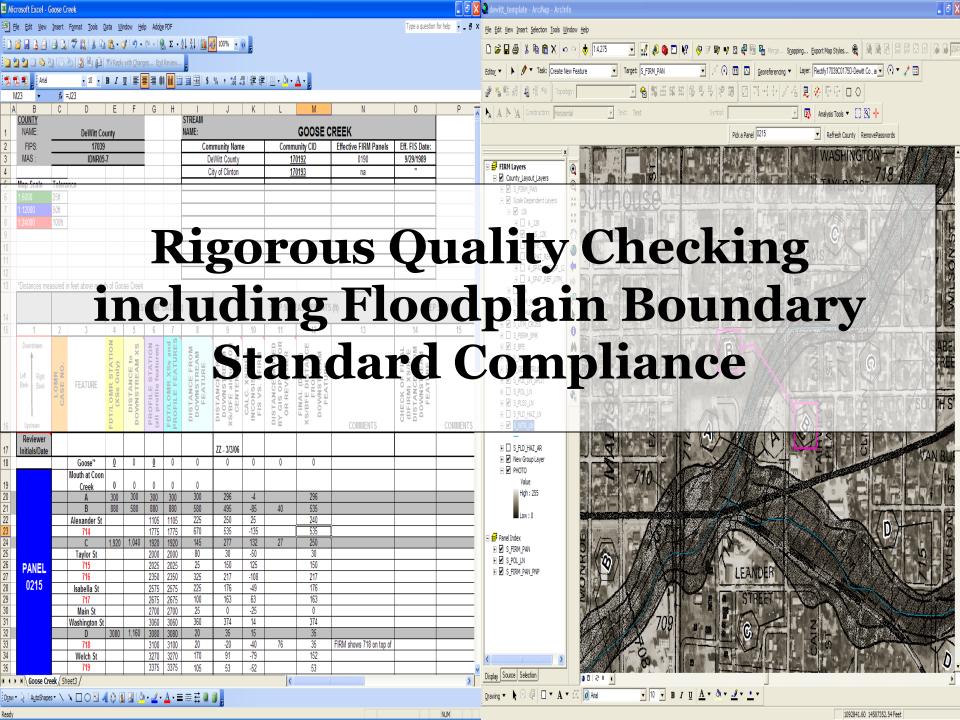


Devastation

Illinois' Flood Damage Reduction Efforts Overview



- 1. Improving Floodplain Mapping
- 2. Enforcing Floodplain Regulations
- 3. Promoting Flood Insurance
- 4. Supporting Mitigation
- 5. Implementing Structural Measures





Regulated Floodway Construction Activities

•Illinois has regulated floodway development for nearly 100 years.

•Over 1,000+ permits reviewed per year.



State Floodway Regulations in the Chicago Metro Area

Open space uses only in the floodway. No buildings!

State review and approval of LOMCs. LOMCs required.

Stormwater regulations

Compensatory storage required.

Countywide ordinances.



3. National Flood Insurance Program (NFIP)

820 NFIP Communities (#5 in the nation).

49,110 flood insurance policies (#16 in the nation).

4,897 repetitive loss structures (#18 in the nation).





Claims have dropped every year since the 1993 flood.





CRS in Illinois

- Ranked #6 in the nation for Participation
- 16 communities are class 6 and 11 are a class 5
- Only four communities in the nation with a higher CRS rating
- 40% of all flood insurance policies in Illinois are subject to CRS discounts

The Illinois Plan....

Focus on Non-structural solutions

- Inventory Repetitive Loss Properties
 - 60% of Rep Loss have already been mitigated.
 - Annual savings of \$2.4 million (based on existing claims history)
- Nearly 5,000 buyouts since 1993
- State provides 25% match on most projects.



- 1. Prevalence and cost with urban flooding.
- 2. Climate change on urban flooding
- 3. Impact of county stormwater programs on urban flooding
- 4. Evaluation of policies such as using the 100yr storm.
- 5. Review of technology to evaluate property damage risk.
- 6. Strategies for minimizing property damage from urban flooding.
- 7. The consistency of criteria for state funding flood control projects.
- 8. Strategies for increasing NFIP and community rating system.
- 9. Strategies to increase the availability, affordability of flood insurance and basement back-up insurance.



REPORT FOR THE

Urban Flooding Awareness Act







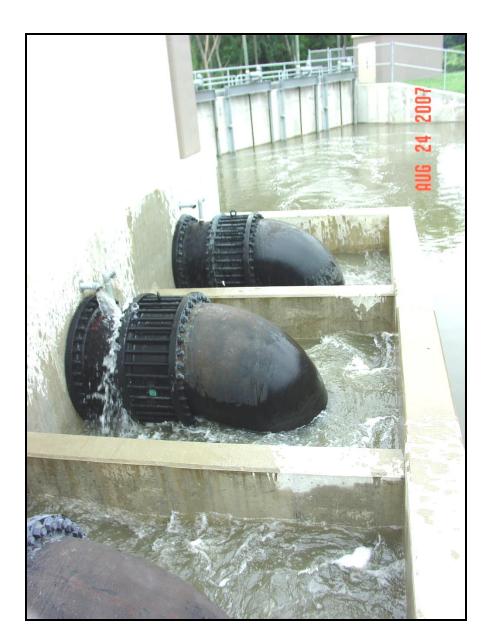




4. Structural Flood Control







Urban Areas = Difficult Solutions

- •Channel modifications
- •Floodwalls
- •Levees
- Pump stations
- •Land acquisitions or flood easements
- Detention/retention basins
- •Wetlands restoration



Rand Park Floodwall and Levee

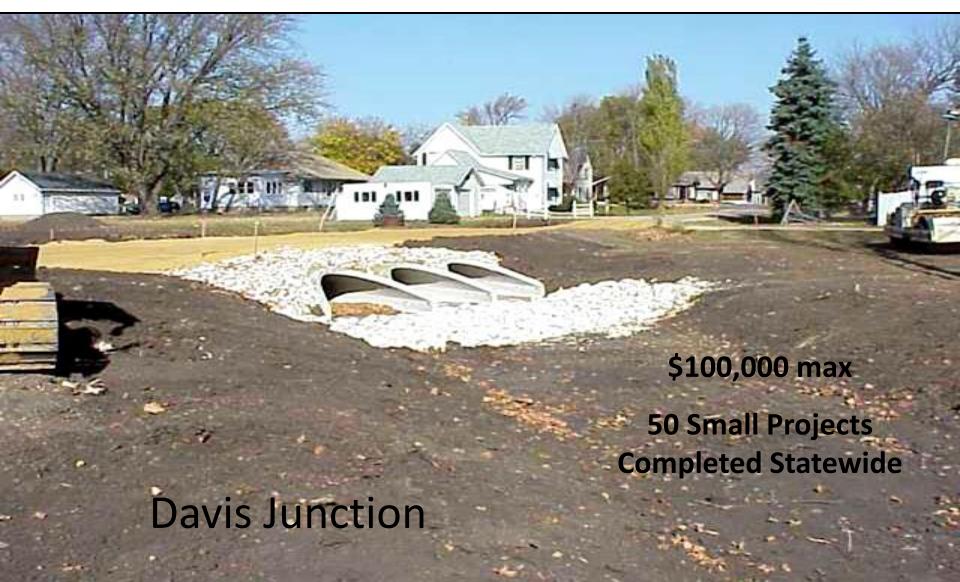
(Des Plaines Area)



Hickory Hills Reservoir



Small Projects Structural Flood Control



Flood Gages and Monitoring

- Monitor Stages on all Illinois streams
- Manage IDNR gages and cost share with USGS operated gages
- Monitor Precipitation throughout the watershed
 - **Forecast floods**
- Coordinate with Emergency Managers

Flood Forecasting

Data Collection

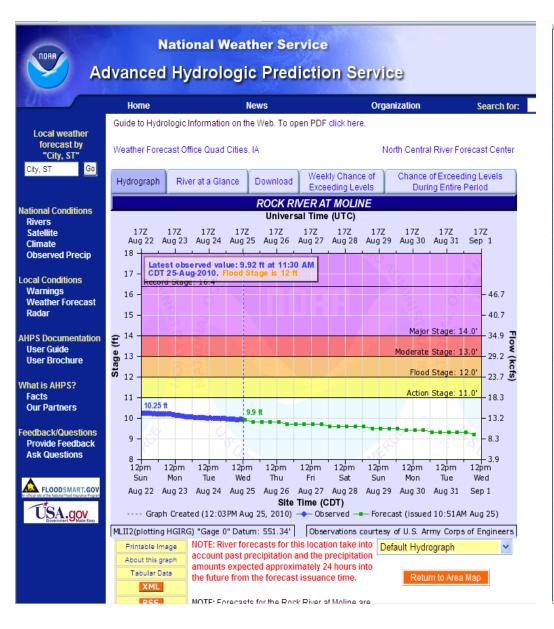


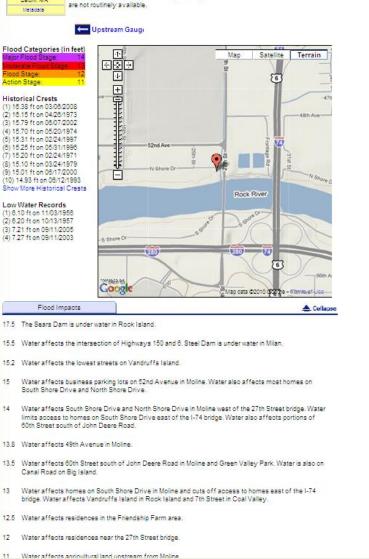




- USGS gage network support
- OWR project gage network
- High Water Marks
- Precipitation gages
- Survey data

Flood Forecasting





NOTE: Forecasts for the Rock River at Nothe are issued as needed during times of high water, but



- Nation's first state flood association
 - •founded in 1986
 - •600 members
- •IAFSM Current newsletter
 - Printed quarterly
- Workshops and twilight seminars
 - 6+ per year





Adams County's GIS Fights Floods and Saves Residents Money

Jose Dell, Adams County Histoway Department

Adams County is located along the Missistippi Elver in west central Illinois with a population of 68,277 and over 125 square miles of floodplain. Their swarf-winning Goographic information Systems (GS) has a wealth of information available to the public. The GIS includes floodplain information that was recently used to fight 2008's floods and to provide port-flooding assistance to residents.

Background
The Adams County GIS is a
multi-participant effort that
began in 1992 and is now
throughout the County.
Cooperation has been the
focal point of this GIS with a
extensive and varied
membership including Adams
County, the City of Quincy,
and five major utilizes. The
Adams County Highway
Deb GIS.



Data sharing is a priority for Adams County. In the same consideration of cooperation that the Adams County GIS

had been conceived on, it was decided to create an internet application available to everyone (www.admuscountygis.com). No passwords are needed, no subscriptions are required and no fees are charged. Admis County also formulated a "good neighbor policy" which allows neighboring counties to post their GIS data on the Admis County GIS wheis fees of charge.

The Great Flood of 1993

Ploy of 1903 twought flooding to Adams Country, which had never seen significant flooding before. Nearly 125 goggether the property of the pro

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The IAFSM Current -1-

Fall 201

- Certified Flood Managers
 - Approximately 530
- Publications
- Annual conference
 - •700 attendees
 - Chicago in even years
 - Downstate in odd years